Appl. No. 10/784,842 Amdt. Dated 8-Sep-05

Reply to Office Action of 07/19/2005 Attorney Docket No.: 6037-006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Currently amended) A An antioxidant composition comprising at least one case in phosphopeptide or fragment thereof, wherein the composition is operable to inhibit exidation of lipids in an oil-in-water or a water-in-oil emulsions emulsion.
- 2. (Previously amended) The composition of Claim 1, further comprising at least one sulfated polysaccharide.
- 3. (Currently amended) The <u>sulfated polysaccharide composition</u> of Claim 2, <u>wherein further-comprising</u> the sulfated polysaccharide <u>is</u> selected from the group consisting of [[:]] iota-carrageenan, kappa-carrageenan, lambda-carrageenan, chondroitin, heparin, dextran, and cyclodextrins, and combinations thereof.
- 4. (Original) The composition of Claim 1, further comprising a medium-chain triglyceride.
- 5. (Currently amended) The emposition medium-chain triglyceride of Claim 4, further comprising a wherein the medium-chain triglyceride is selected from the group consisting of: caproic (C:6.0), caprylic (C:8.0), and capric (C:10.0) triglycerides, and any combinations thereof.
- 6. (Currently amended) The composition of Claim 1, further comprising [[a]]-at least one non-reducing sugar or sugar polyol.
- 7. (Currently amended) The composition of Claim 1, further comprising wherein the case of er fragment thereof phosphopeptide is selected from the group consisting of [[:]] alpha-case in, beta-case in, kappa-case in, fragments thereof, and any combinations thereof.

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- 8. (Currently amended) The composition of Claim 1, wherein the casein er fragment thereof phosphopeptide comprises a caprine casein phosphopeptide or fragment thereof.
- 9. (Currently amended) The composition of Claim 1, further An antioxidant composition comprising at least one casein fragment, wherein the casein fragment is at least one of a phosphopeptide, a glycopeptide, a glyceride and combinations thereof, in an oil-in-water or a water-in-oil emulsion.
- 10. (Currently amended) The casein fragment composition of Claim 9, further comprising a phosphopeptide having amounts wherein the casein fragment is characterized by a content of alpha.sub.s2.-casein greater than 15 percent of total casein and medium-chain triglycerides.
- 11. (Currently amended) The eemposition phosphopeptide of Claim 10 Claim 9, further comprising wherein the phosphopeptide comprises a caseinophosphopeptide.
- 12. (Currently amended) The <u>caseinophosphopeptide</u> composition of Claim 11, wherein the caseinophosphopeptide comprises a caprine caseinophosphopeptide.
 - 13. (Canceled)
- 14. (Currently amended) The composition of Claim 1, further comprising at least one ingredient selected from the group consisting of [[:]] alpha, beta, gamma or delta tocopherols, alpha, beta, gamma or delta tocotrienols, tocopherols, tocotrienols, beta-carotene, phospholipids, chitosan and combinations thereof.
- 15. (Currently amended) The composition of Claim 1, further comprising at least one phospholipid selected from the group consisting of [[:]] egg yolk phospholipids, soybean phospholipids, and combinations thereof.
- 16. (Previously amended) The composition of Claim 1, further comprising at least one ingredient selected from the group consisting of pH modifiers, chelating agents, polyphenols, modified starches, glycerides, fruit concentrate sweeteners, cocoa powder,

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sucralose, and oil-soluble flavors, vitamins, nutraceutical actives, and pharmaceutical actives.

- 17. (Currently amended) The emposition pH modifiers of Claim 16, wherein the pH modifier is modifiers are selected from the group consisting of [[:]] citric acid, ascorbic acid, gluconic acid, and combinations thereof.
- 18. (Currently amended) The <u>chelating agents</u> eomposition of Claim 16, wherein the chelating agent-comprises agents comprise citric acid.
 - 19. (Canceled)
- 20. (Currently amended) The <u>polyphenols</u> eemposition of Claim 16, wherein the polyphenols eemprises the polyphenols <u>are</u> derived from the fruit of *Solanum* melongena.
 - 21 41 (Canceled)
- 42. (Currently amended) A product comprising at least one casein phosphopeptide or fragment thereof, wherein the composition casein phosphopeptide imparts at least one function selected from the group consisting of inhibiting oxidation of lipids in oil-in-water or water-in-oil emulsions, preventing bone mineral loss in a mammal, and preventing hypercholesterolemia in a mammal.
- 43. (Currently amended) The product of Claim 42, wherein the product is selected from the group consisting of [[::]] cocoa products, hypercholesterolemia preventatives, bone mineral loss preventatives, Omega-3-rich oil products, products having oil-soluble flavors, products having oil-soluble vitamins, nutraceuticals, or pharmaceuticals, protein rich products having reduced protein settling and sedimentation, transparent beverages, products containing vegetable oils including rice bran oil, flax, chia, hemp, castor, soybean, lesquerella, dehydrated castor oil, rich in Omega-3, or conjugated linoleic acid, animal oils including fish, egg, poultry, and beef oils rich in Omega-3, or conjugated linoleic acid, and combinations thereof.

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- 44. (Currently amended) The <u>emulsion composition</u> of Claim 1, wherein the emulsion thereof comprises either a water-in-oil microemulsion, <u>a</u> water-in-oil nanoemulsion, <u>an</u> oil-in-water microemulsion, or an oil-in-water nanoemulsion thereof.
 - 45. (Canceled)
 - 46. (Canceled)
- 47. (Currently amended) The <u>casein phosphopeptide</u> composition of Claim 21 1, wherein the polycationic complex <u>casein phosphopeptide</u> is selected from the group consisting of comprises a trypsin-digested casein.
- 48. (Currently amended) The <u>trypsin-digested casein eemposition</u> of Claim 21 47, wherein the trypsin-digested casein is selected from the group consisting of caprine casein characterized by a content of alpha.sub.s2.-casein greater than 15 percent and beta-casein greater than 15 percent of the total casein.
- 49. (Currently amended) The <u>casein phosphopeptide</u> eomposition of Claim 21 1, wherein the casein <u>phosphopeptide</u> comprises is selected from the group consisting of caprine casein phosphopeptides.
- 50. (Currently amended) The composition of Claim 28 9, wherein the polyphenols comprises polyphenols further comprising a polyphenol selected from the group consisting of Solanum melongena polyphenols.
- 51. (Currently amended) The composition of Claim 21 9, further comprising non-reducing sugars and sugar polyols.
- 52. (Currently amended) The composition of Claim 21 9, further comprising pH modifiers wherein the acidic environment ranges from pH 2.0 to 5.7.
- 53. (Currently amended) The composition of Claim 23 9, wherein the <u>further</u> comprising sulfated polysaccharides are selected from the group consisting of carrageenans, chondroitin, heparin, dextran, cyclodextrins and combinations thereof.
 - 54. (Canceled).
 - 55. (Canceled)

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56. (Canceled)

57. (Canceled)

58. (Canceled)

59. (Canceled)

60. (Canceled)

61. (Canceled)

62. (Canceled)

63. (Canceled)

64. (Canceled)

- 65. (Currently amended) The composition of Claim 9, wherein the glyceride is selected from the group consisting of [[:]] enzymatically modified oils, fats, and fatty acids of mono-, di-, and tri-glycerides; lipolyzed modified oils, fats, and fatty acids of mono-, di-, and tri-glycerides; and combinations thereof.
- 66. (Currently amended) The composition of Claim 16, wherein the fruit concentrate sweetener comprises [[:]] a blend of hydrolyzed starch having a dextrose equivalent [[(D.E.)]] of up to approximately 25; fruit juice or fruit syrup concentrate of at least approximately 40% soluble solids; and approximately 0% insoluble solids, wherein the starch, juice or concentrate and solids form a liquor having a dry weight composition of approximately 40 to approximately 65% complex carbohydrates, approximately 35 to approximately 55% simple sugars from the fruit juice or fruit syrup concentrate, and approximately 0 to approximately 5% nutritional components occurring naturally in the fruit juice or fruit syrup concentrate.